

Attorney Docket No.: J3678(C)  
Serial No.: 10/520,394  
Filed: January 4, 2005  
Confirmation No.: 5147

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

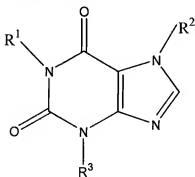
#### Listing of Claims:

Claim 1 (Currently Amended) A method of treating hair comprising the steps of

(a) applying to the hair a leave on hair treatment composition comprising:

i) an alpha-hydroxyl acid component that is citric acid, tartaric acid, their salts or mixtures thereof; and

ii) a xanthine, component comprising a substituted xanthine or mixtures thereof, of the formula:



wherein R<sup>1</sup> and R<sup>2</sup> are independently selected from H or substituted or unsubstituted C<sub>1</sub> to C<sub>5</sub> alkyl, and R<sup>3</sup> is substituted or unsubstituted C<sub>1</sub> to C<sub>5</sub> alkyl, and

wherein the total amount of alpha-hydroxy acid component i) and xanthine component ii) present in the leave on hair treatment composition is from 2 to 5 wt. % and wherein the ratio of i) to ii) is from 1:0.01 to 0.01:1, 1:3 to 3:1 and

iii) from 0.001 to 10% by weight of a styling polymer,

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wherein the leave on hair treatment composition is applied to ~~lengthen the hair,~~  
~~decrease the volume of the hair and/or~~ to increase the high humidity style retention of  
the hair, and

(b) styling the hair on which the leave-on hair treatment composition has been applied.

Claim 2 (Cancelled)

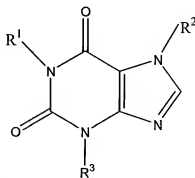
Claim 3 (Cancelled)

Claim 4 (Previously Presented) A method of treating hair comprising the steps of

(a) applying to the hair a leave on hair treatment composition comprising:

i) an alpha-hydroxy acid component that is citric acid, tartaric acid, their  
salts or mixtures thereof; and

ii) a xanthine component comprising a; substituted xanthine ~~or mixtures~~  
~~thereof, of the formula~~

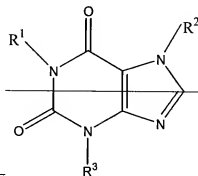


wherein R<sup>1</sup> and R<sup>2</sup> are independently selected from H or substituted or unsubstituted C<sub>1</sub> to C<sub>5</sub> alkyl, and R<sup>3</sup> is substituted or unsubstituted C<sub>1</sub> to C<sub>5</sub> alkyl, wherein the total amount of the alpha-hydroxy acid component i) and xanthine component ii) present in the leave on hair treatment composition is from 2 to 5 wt.% and wherein the ratio of i) to ii) is from 1:0.01 to 0.01:1,

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iii) from 0.001 to 10% by weight of a styling polymer,  
wherein the leave on hair treatment composition is applied to lengthen the hair,  
decrease the volume of the hair and/or to increase the high humidity style retention of  
the hair, and

(b) styling the hair on which the leave-on hair treatment composition has been applied  
wherein component (ii) of the composition comprises a xanthine of the formula



wherein  $R^1$  and  $R^2$  are independently selected from H or substituted or unsubstituted  $C_1$  to  $C_6$  alkyl, and  $R^3$  is substituted or unsubstituted  $C_1$  to  $C_6$  alkyl.

Claim 5 (Currently Amended) A method according to claim 1 in which the substituted xanthine derivative ii) is caffeine.

Claim 6 (Previously Presented) A method according to claim 1 in which the  $\alpha$  -hydroxy acid and/or its salt if optically active is in the L-form.

Claims 7-8 (Cancelled)

Claim 9 (Previously Presented) A method according to claim 1 in which the hair treatment composition further comprises a surfactant.

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Claim 10 (Previously Presented) A method according to claim 1, in which the hair treatment composition further comprises a cationic, or silicone based conditioning agent.

Claim 11 (Cancelled)

Claim 12 (Previously presented) A method according to claim 1 in which the hair treatment composition comprises an aqueous base.

Claims 13-15 (Cancelled)

Claim 16 (Previously Presented) A method according to claim 1 wherein the substituted xanthine is selected from the group consisting of caffeine, dyphylline, cafaminol, theophylline, aminophylline, and theobromine.

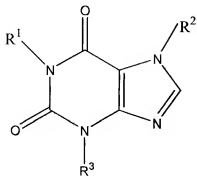
Claim 17 (Currently Amended) A method according to claim ~~14~~ wherein the ratio of i) to ii) is from 3:1 to 1:3.

Claim 18 (Cancelled)

Claim 19 (Cancelled) A method of treating hair comprising the step of applying to the hair a leave on hair treatment composition comprising:

- i) an  $\alpha$ -hydroxy acid component comprising L-tartaric acid and/or its salt;
- and
- ii) a xanthine component comprising a substituted xanthine of the formula:

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wherein  $R^1$  and  $R^2$  are independently selected from H or substituted or unsubstituted  $C_1$  to  $C_5$  alkyl, and  $R^3$  is substituted or unsubstituted  $C_1$  to  $C_5$  alkyl, and in which  $R^1$ ,  $R^2$  and  $R^3$  are independently selected from H, substituted or unsubstituted  $C_4$ - $C_8$  alkyl groups, substituted or unsubstituted  $C_2$ - $C_6$  alkenyl groups, aryl groups, arylalkyl groups or mixtures thereof, wherein the ratio of the  $\alpha$ -hydroxy acid component i) to the xanthine component ii) is from 3:1 to 1:3, and wherein the total amount of  $\alpha$ -hydroxy acid component i) and xanthine component ii) present in the leave on hair treatment composition is from 2 to 5 wt. %.

Claim 20 (Previously Presented) A method according to claim 4 wherein  $R^1$ ,  $R^2$  and  $R^3$  are independently selected from  $C_1$  to  $C_5$  alkyl.

Claim 21 (New) A method according to claim 1 wherein the hair treatment composition is also applied to lengthen the hair and/or to decrease the volume of the hair.